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## **PARTS CATALOG**

FOR

**SERIES**  
**CCKA**  
**INDUSTRIAL ENGINES**

### **MODELS**

**CCKA-MS/1831G**  
**CCKA-MS/1897G**  
**CCKA-MS/1949G**  
**CCKA-MS/2043G**  
**CCKA-MS/2111G**  
**CCKA-MS/2567G**  
**CCKA-MS/2813J**  
**CCKA-MS/3110J**  
**CCKA-MS/3612J**

# PARTS CATALOG

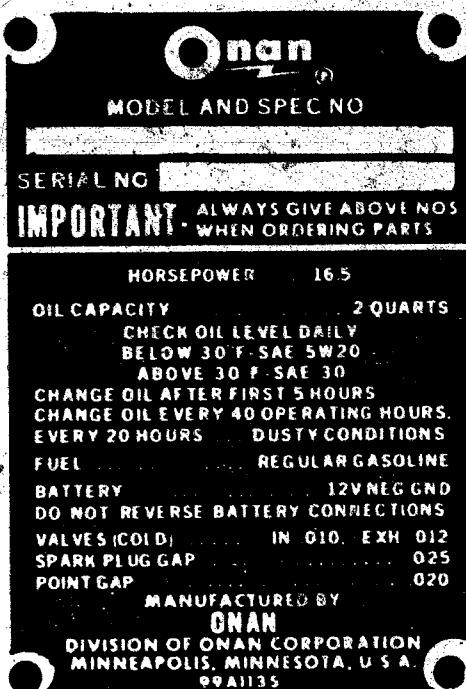
## INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit:

1. Always give the MODEL and SPEC NO. and SERIAL NO.



For handy reference, insert YOUR engine nameplate information in the spaces above.

2. Do not order by reference number or group number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest AUTHORIZED SERVICE STATION. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de propósito, ya que bastante confusión resultó de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extranjeros, etc."

• Consiga los precios vigentes de su distribuidor de productos "ONAN".

This catalog applies to the CCKA Engines listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number following the illustration. Parts illustrations are typical. Using the MODEL and SPEC NO. from the engine nameplate, select the PARTS KEY NO. (1,2, etc., in the last column) that applies to your Engine Model and Spec No. This PARTS KEY NO. represents parts that differ between models. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left engine sides are determined by FACING the blower end (front) of the engine.

| MODEL AND SPEC NO. | PARTS KEY NO. |
|--------------------|---------------|
| CCKA-MS/1831G*     | 1             |
| CCKA-MS/1897G*     | 2             |
| CCKA-MS/1949G*     | 3             |
| CCKA-MS/2043G†     | 4             |
| CCKA-MS/2111G*†    | 5             |
| CCKA-MS/2813J*     | 6             |
| CCKA-MS/3110J*     | 7             |
| CCKA-MS/3612J*     | 8             |

\* - The Specification Letter Advances (A to B, B to C, etc.) with manufacturing changes.

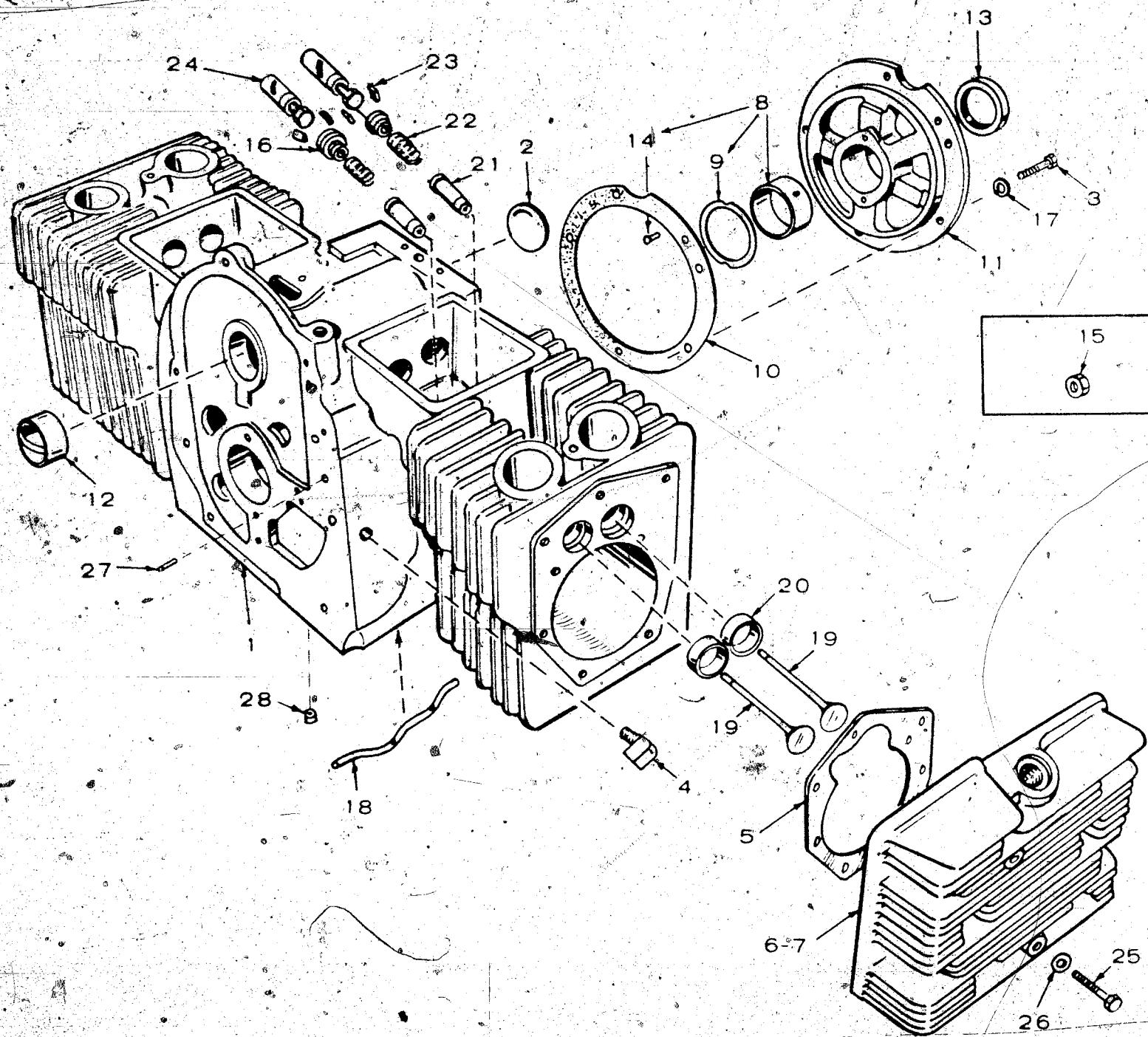
† - CCKA-MS/2567G is replacement engine for CCKA-MS/2111G and is identical.

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# CYLINDER BLOCK

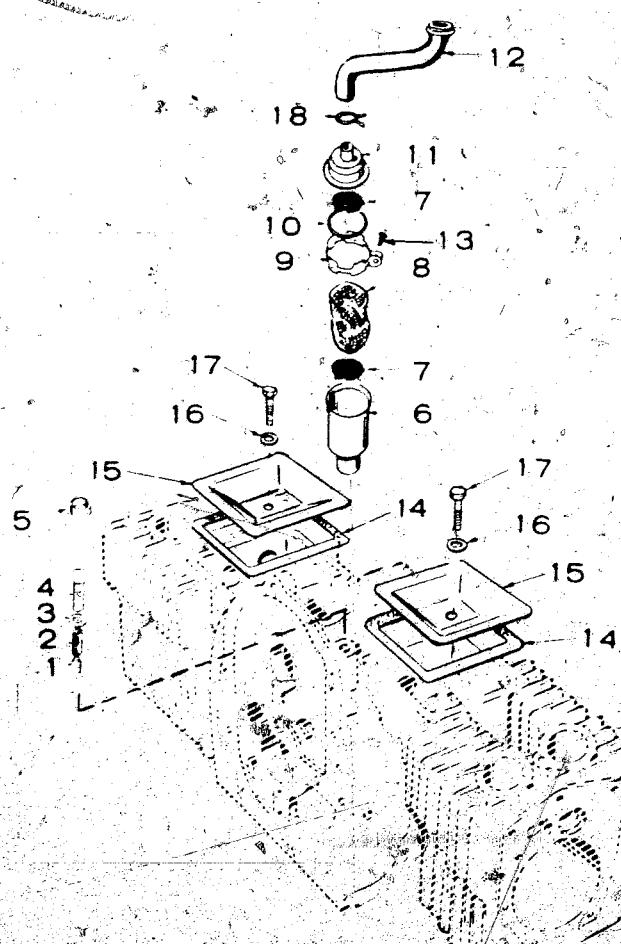


# CYLINDER BLOCK

| REF.<br>NO. | PART<br>NO.               | QTY<br>USED | PART<br>DESCRIPTION  | REF.<br>NO. | PART<br>NO.         | QTY<br>USED                   | PART<br>DESCRIPTION   |
|-------------|---------------------------|-------------|--|-------------|---------------------|-------------------------------|---|
| 1           | BLOCK ASSEMBLY            |             |  | 6           | 110-0904            | 4                             | Rotocap. Valve  |
|             | 110-1770                  | 1           | Key 1,2,3,4  | 17          | 851-0005            | 5                             | Washer, Lock - Rear Bearing Plate (Special)                                 |
|             | 110-1911                  | 1           | Key 5,6,7,8  | 18          | 120-0386            | 1                             | Tube, Crankcase Oil   |
| 2           | 517-0048                  | 1           | Plug, Camshaft Expansion   | 19          | VALVE               |                               |   |
| 3           | 800-0512                  | 5           | Screw, Cap - Hex Head<br>Rear Bearing, Plate Mounting<br>(5 16-18 x 1) | 110-1037    | 2                   | Intake                        |   |
| 4           | 502-0020                  | 1           | Elbow, Street - Oil Line<br>(Keys 1,2,3,4 & 5)                         | 110-0880    | 2                   | Exhaust                       |   |
| 5           | 110-0892                  | 2           | Gasket, Cylinder Head  | 20          | INSERT, VALVE SEAT  |                               |   |
| 6           | 110-0884                  | 1           | Head, Cylinder - Right<br>(#2 Cylinder)                                | 110-0872    | 2                   | Exhaust, Standard             |   |
| 7           | 110-0883                  | 1           | Head, Cylinder - Left<br>(#1 Cylinder)                                 | 110-0872-02 | 2                   | Exhaust .002" Oversize        |   |
| 8           | BEARING, CRANKSHAFT       |             |  | 110-0872-05 | 2                   | Exhaust .005" Oversize        |   |
|             | 101-0450                  | 2           | Standard   | 110-0872-10 | 2                   | Exhaust .010" Oversize        |   |
|             | 101-0450-02               | 2           | .002" Undersize  | 110-0872-25 | 2                   | Exhaust .025" Oversize        |   |
|             | 101-0450-10               | 2           | .010" Undersize  | 21          | 110-0902            | 4                             | Guide, Valve  |
|             | 101-0450-20               | 2           | .020" Undersize  | 22          | 110-0539            | 4                             | Spring, Valve   |
|             | 101-0450-30               | 2           | .030" Undersize  | 23          | 110-0639            | 8                             | Lock, Valve and Spring<br>Retaining   |
| 9           | 104-0575                  | 2           | Washer, Crankshaft Bearing<br>Thrust                                   | 24          | TAPPET, VALVE       |                               |   |
| 10          | GASKET KIT, BEARING PLATE |             |  | 115-0006    | 4                   | Standard                      |   |
|             | 101-0413                  | 1           | Key 1,2,3,4  | 115-0006-05 | 4                   | .005" Oversize                |   |
|             | 101-0115                  | 1           | Key 5,6,7,8  | 25          | SCREW, CAP HEX HEAD |                               |   |
| 11          | 101-0316                  | 1           | Plate, Bearing (Excludes Bearing)                                      | 110-0879    | 8                   | 5/16-18 x 1-1/4" lg (Special) |   |
| 12          | 101-0367                  | 2           | Bearing, Camshaft Front or<br>Rear (Precision)                         | 114-0022    | 10                  | 5/16 x 1-3/4" lg (Special)    |   |
| 13          | 509-0041                  | 1           | Seal, Bearing Plate  | 26          | 526-0122            | 18                            | Washer, Flat - Cylinder Head<br>Mounting (11 32" I.D. x 23<br>x 10" Ga Thk) |
| 14          | 516-0072                  | 4           | Pin, Main Bearing Stop   | 27          | 516-0011            | 2                             | *Pin, Dowel - Gearcase<br>Alignment   |
| 15          | 110-0445                  | 5           | Nut, Rear Bearing Plate<br>(Key 1,2,3,4,5,8)                           | 28          | 517-0090            | 1                             | Plug, Wet Hole (Plastic)  |

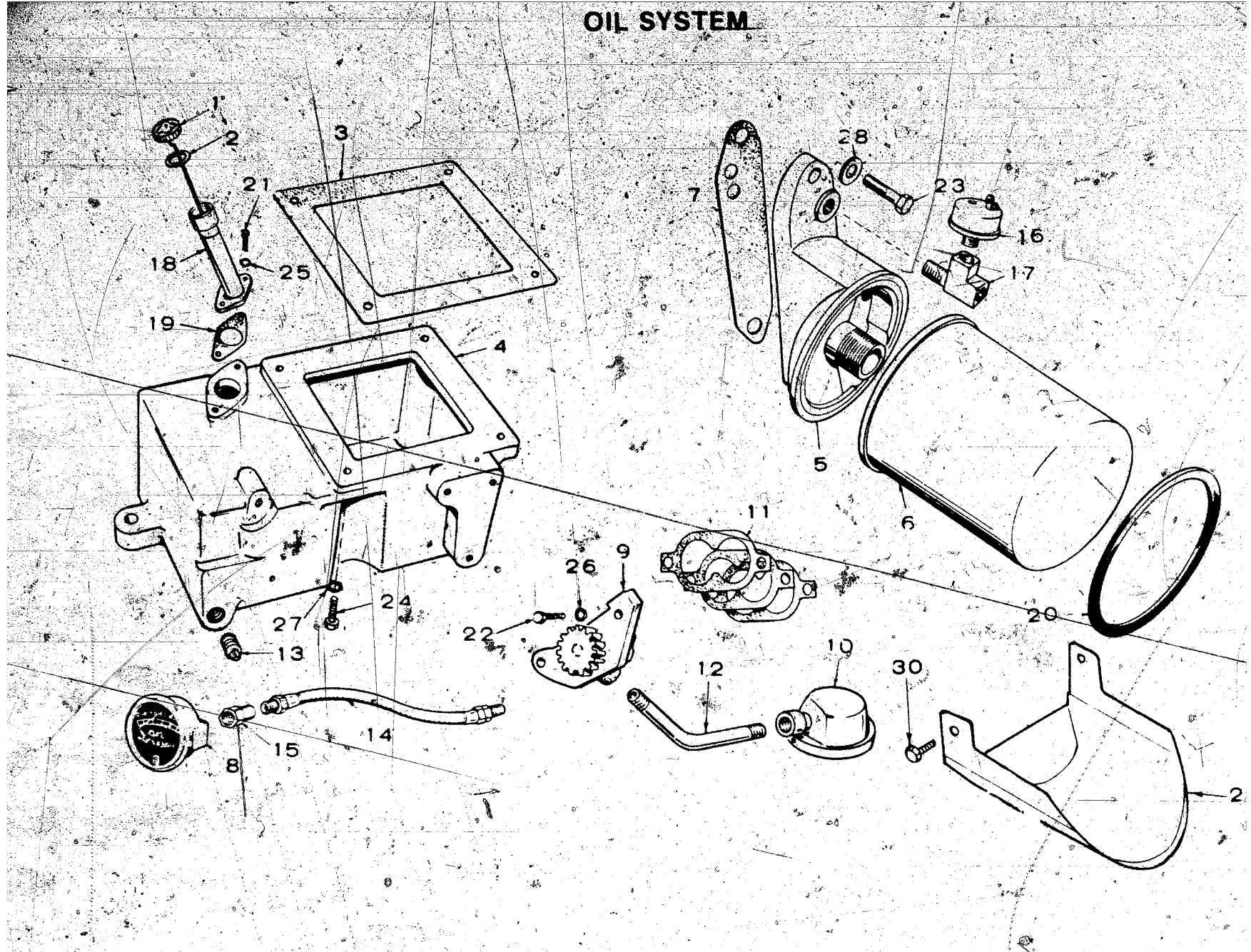
- Parts included in Cylinder Block Assembly

## VALVE COVER AND OIL BY-PASS



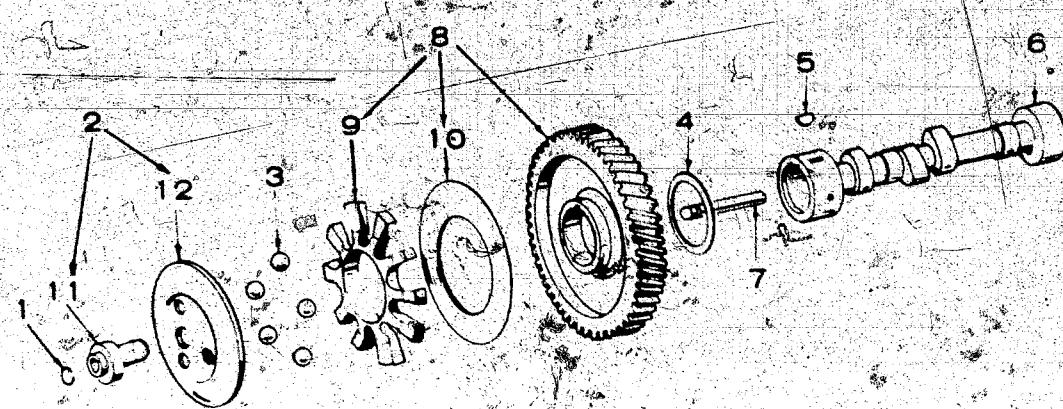
| REF.<br>NO. | PART<br>NO.    | QTY.<br>USED | PART<br>DESCRIPTION  |
|-------------|----------------|--------------|--|
| 1           | 123-0398       | 1            | Valve, Oil By-Pass   |
| 2           | 120-0140       | 1            | Spring, Oil By-Pass Valve  |
| 3           | 526-0066       | 1            | Washer, Flat, Oil Pressure<br>Valve (25/64" ID x 9 1/16"<br>x 1/16" Thk)   |
| 4           | 120-0187       | 1            | Stud, Oil By-Pass Adjustm<br>(Includes Nuts) Keys 1,2                      |
| 4           | 801-0050       | 1            | Screw, Cap - Hex Head<br>Oil By-Pass Adjustment<br>(3/8-24 x 1" lg)        |
| 4           | 801-0048       | 1            | Screw, Cap - Hex Head -<br>By-Pass Adjustment<br>(5/16-18 x 1" lg) - Key 6 |
| 5           | 120-0704       | 1            | Spacer, Oil By-Pass (Key 5)  |
| 6           | 123-0953       | 1            | Tube, Breather   |
| 7           | 123-0958       | 2            | Screen, Breather Tube  |
| 8           | 123-0865       | 1            | Baffle, Breather Tube  |
| 9           | 123-0951       | 1            | Clamp, Breather Cap  |
| 10          | 509-0117       | 1            | Seal, "O" Ring - Breather  |
| 11          | 123-0954       | 1            | Cap, Breather Tube   |
| 12          | TUBE, BREATHER |              |  |
|             | 503-0574       | 1            | Keys 1,2,3,4,5   |
|             | 123-1264       | 1            | Key 6,7,8  |
| 13          | 809-0035       | 1            | Screw, Cap - Hex Head - Bi<br>Gap Clamp (#8 x 3 1/4" lg)                   |
| 14          | 110-0667       | 2            | Gasket, Valve Cover  |
| 15          | 110-0666       | 2            | Cover, Valve Cover   |
| 16          | 526-0063       | 2            | Washer, Flat - Valve Cove<br>Mounting (17 64" I.D. x 7<br>x 1 32" Thk)     |
| 17          | 800-0012       | 2            | Screw, Cap - Hex Head -  |

# OIL SYSTEM



| REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION        | REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION                              |
|-------------|-------------|--------------|----------------------------|-------------|-------------|--------------|--|
| 1           | 123-1102    | 1            | Cap & Indicator.oil Fill   | 17          | 502-0058    | 1            | Tee. Low Oil Pressure Switch -                   |
| 2           | 123-0191    | 1            | Gasket. Oil Fill Cap       | 18          | 123-0674    | 1            | Key 4.5.6.7.8                                    |
| 3           | 102-0158    | 1            | Gasket. Oil Base Mounting  | 19          | 141-0078    | 1            | Tube. Oil Fill                                   |
| 4           | 102-0655    | 1            | Base. Oil                  | 20          | 122-0347    | 1            | Gasket. Oil Fill Tube                            |
| 5           | 122-0320    | 1            | Adapter. Oil Fill          | 21          | 800-0005    | 2            | Mounting   |
| 6           | 122-0323    | 1            | Filter. Oil (Spin-On)      | 22          | 800-0007    | 2            | Seal. Air - Oil Filter                           |
| 7           | 122-0321    | 1            | Gasket. Oil Filter Adapter | 23          | 800-0028    | 2            | Screw. Cap - Hex Head - Oil Fill                 |
| 8           | 193-0005    | 1            | Gauge. Oil Pressure -      | 24          | 102-0455    | 4            | Tube Mounting (1 4-20 x 3 4" lg)                 |
|             |             |              | Key 1.2.3                  | 25          | 850-0040    | 2            | Screw. Cap - Hex Head - Oil Pump                 |
| 9           | 120-0491    | 1            | Pump. Oil - Complete       | 26          | 850-0040    | 2            | Mounting (1 4-20 x 1" lg)                        |
|             |             |              | (NOTE: Internal parts not  | 27          | 850-0050    | 4            | Screw. Cap - Hex Head - Oil Filter               |
|             |             |              | sold separately)           | 28          | 526-0065    | 2            | Adapter Mounting (5-16-18 x 1                    |
| 10          | 120-0663    | 1            | Intake. Oil Pump (Includes | 29          | 122-0352    | 1            | Screw. Cap - Hex Head - Oil                      |
|             |             |              | Cup and Screen)            | 30          | 815-0194    | 2            | Base Mounting (3-8-16 x 1" lg)                   |
| 11          | 120-0161    | 1            | Gasket Kit. Oil Pump       |             |             |              | Washer. Lock - Spring - Oil Fill                 |
| 12          | 120-0689    | 1            | Line. Oil Pump Intake      |             |             |              | Tube Mounting (1 4" )                            |
| 13          | 505-0056    | 1            | Plug. Oil Drain            |             |             |              | Washer. Lock - Spring - Oil Pump                 |
| 14          | 501-0003    | 1            | Line. Oil Gauge (Flexible) |             |             |              | Mounting (1 4" )                                 |
| 15          | 502-0017    | 1            | Connector. Oil Line        |             |             |              | Washer. Lock - Spring - Oil Bas                  |
| 16          | 309-0237    | 1            | Switch. Low Oil Pressure   |             |             |              | Mounting (3 8" )                                 |
|             |             |              | Key 4.5.6.7.8              |             |             |              | Washer. Flat - Oil Filter                        |
|             |             |              |                            |             |             |              | Adapter Mounting (21 64" ID x 9 16" OD x 1 16" 1 |
|             |             |              |                            |             |             |              | Pan. Oil Drain                                   |
|             |             |              |                            |             |             |              | Screw. Tapping - Hex Head                        |
|             |             |              |                            |             |             |              | with ET (#10-32 x 3 8" )                         |

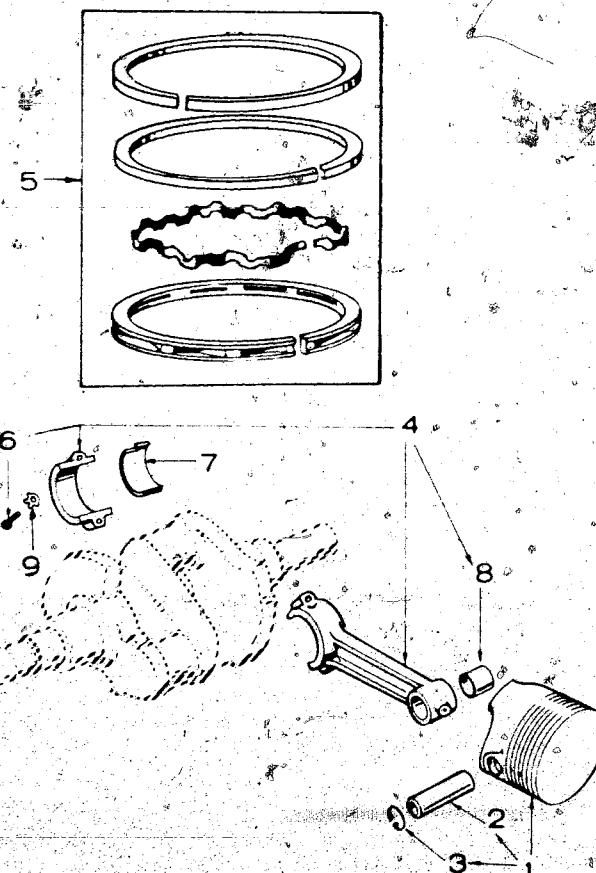
## CAMSHAFT



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION                         |
|----------|----------|-----------|--|
| 1        | 150-0078 | 1         | Ring, Camshaft Center Pin                |
| 2        | 150-1695 | 1         | Kit, Governor Cup                        |
| 3        | 510-0015 | 5         | Ball, Fly - Governor                     |
| 4        | 105-0004 | 1         | Washer, Camshaft Gear Thrust             |
| 5        | 515-0001 | 1         | Key, Camshaft Gear Mounting              |
| 6        | 105-0238 | 1         | Camshaft (Includes Pin)                  |
| 7        | 150-0075 | 1         | Pin, Camshaft Center                     |
| 8        | 105-0332 | 1         | Gear, Camshaft (Includes Parts Marked *) |
| 9        | 150-1257 | 1         | Spacer, Flyball                          |
| 10       | 150-0077 | 1         | Plate, Flyball                           |
| 11       | 150-1519 | 1         | Hub, Governor Cup                        |
| 12       | 150-1520 | 1         | Cup, Governor                            |

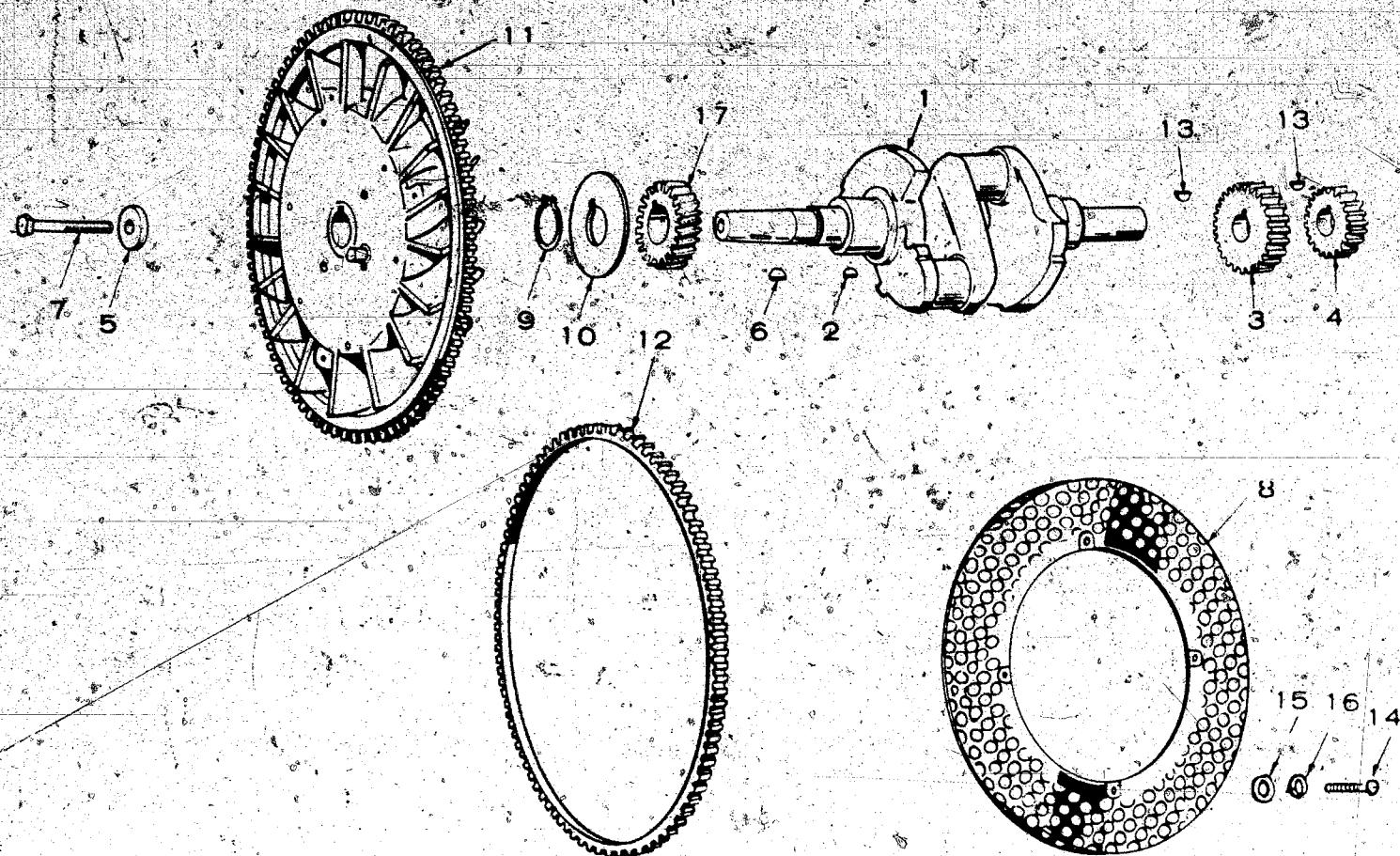
\* Parts included in 105-0332 Camshaft Gear

## PISTON AND CONNECTING ROD



| REF. NO. | PART NO.                                | QTY. USED | PART DESCRIPTION   |
|----------|---|-----------|--|
| 1        | PISTON & PIN (Includes Retaining Rings) |           |  |
|          | 112-0136                                | 2         | Standard   |
|          | 112-0136-05                             | 2         | .005" Oversize   |
|          | 112-0136-10                             | 2         | .010" Oversize   |
|          | 112-0136-20                             | 2         | .020" Oversize   |
|          | 112-0136-30                             | 2         | .030" Oversize   |
|          | 112-0136-40                             | 2         | .040" Oversize   |
| 2        | PIN, PISTON                             |           |  |
|          | 112-0069                                | 2         | Standard   |
| 3        | 112-0003                                | 4         | Ring, Piston Pin Retaining                                 |
| 4        | 114-0203                                | 2         | Rod Assembly, Connecting (Fo. Includes Bushing and Place E |
| 5        | RING SET, PISTON                        |           |  |
|          | 113-0153                                | 2         | Standard   |
|          | 113-0153-05                             | 2         | .005" Oversize   |
|          | 113-0153-10                             | 2         | .010" Oversize   |
|          | 113-0153-20                             | 2         | .020" Oversize   |
|          | 113-0153-30                             | 2         | .030" Oversize   |
|          | 113-0153-40                             | 2         | .040" Oversize   |
| 6        | 805-0010                                | 4         | Bolt, Place - Connecting Rods (5.16-24 x 1/4" lg)          |
| 7        | BEARING, CONNECTING ROD                 |           |  |
|          | 114-0145                                | 4         | Standard   |
|          | 114-0145-02                             | 4         | .002" Undersize  |
|          | 114-0145-10                             | 4         | .010" Undersize  |
|          | 114-0145-20                             | 4         | .020" Undersize  |
|          | 114-0145-30                             | 4         | .030" Undersize  |
| 8        | 114-0036                                | 2         | Bushing, Piston Pin - Connect Rod                          |
| 9        | 114-0059                                | 4         | Washer, Connecting Rod Screw                               |

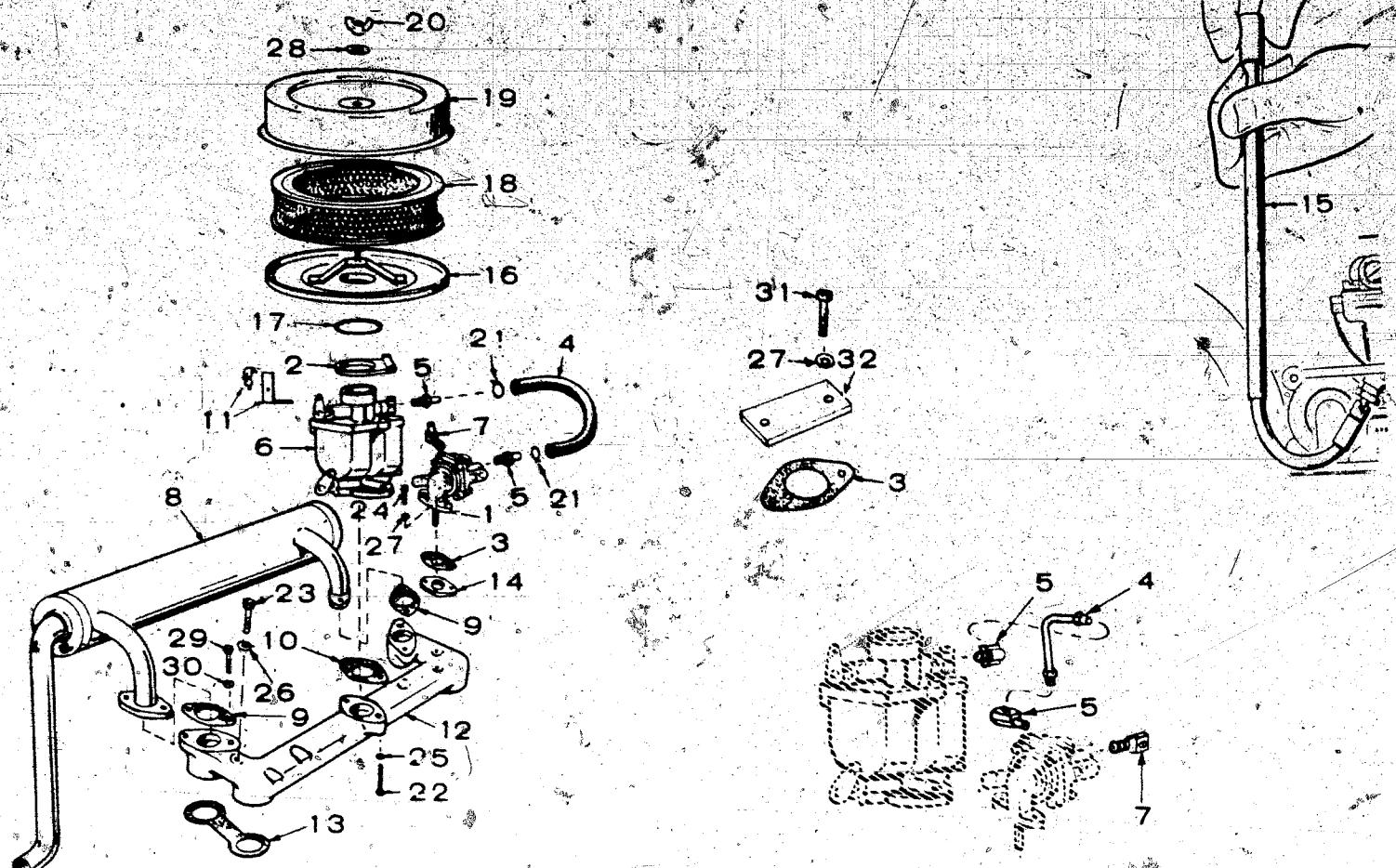
## CRANKSHAFT



| REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION                               |
|-------------|-------------|--------------|---|
| 1           | CRANKSHAFT  |              |   |
|             | 104-0710    | 1            | Key 1,2,3 & 4                                     |
|             | 104-0774    | 1            | Key 5   |
|             | 104-0885    | 1            | Key 6,7,8   |
| 2           | 515-0001    | 1            | Key, Crankshaft Gear<br>Mounting                  |
| 3           | 190-0284    | 1            | Gear, Transmission Drive<br>(3-3/16") - Key 4     |
| 4           | 190-0285    | 1            | Gear, Transmission Drive<br>(2-5/16") - Key 4     |
| 5           | 526-0128    | 1            | Washer, Flywheel Mounting                         |
| 6           | 515-0098    | 1            | Key, Flywheel Mounting                            |
| 7           | 104-0170    | 1            | Screw, Flywheel Mounting<br>(Special)             |
| 8           | 134-1889    | 1            | Screen, Flywheel                                  |
| 9           | 518-0014    | 1            | Lock, Crankshaft Gear Washer                      |
| 10          | 104-0043    | 1            | Washer, Crankshaft Gear<br>Retaining              |
| 11          | 134-2556    | 1            | Flywheel (Includes Ring Gear)                     |
| 12          | 134-0673    | 1            | Gear, Ring - Flywheel                             |
| 13          | 515-0094    | 2            | Key, Transmission Drive<br>Gears - Key 4          |
| 14          | 812-0125    | 3            | Screw, Roundhead (12-29 x 1/2")<br>Guard Mounting |
| 15          | 526-0006    | 3            | Washer, Flat (#12) - Guard<br>Mounting            |
| 16          | 850-0035    | 3            | Washer, Lock (#12) - Guard<br>Mounting            |
| 17          | 104-0032    | 1            | Gear, Crankshaft                                  |

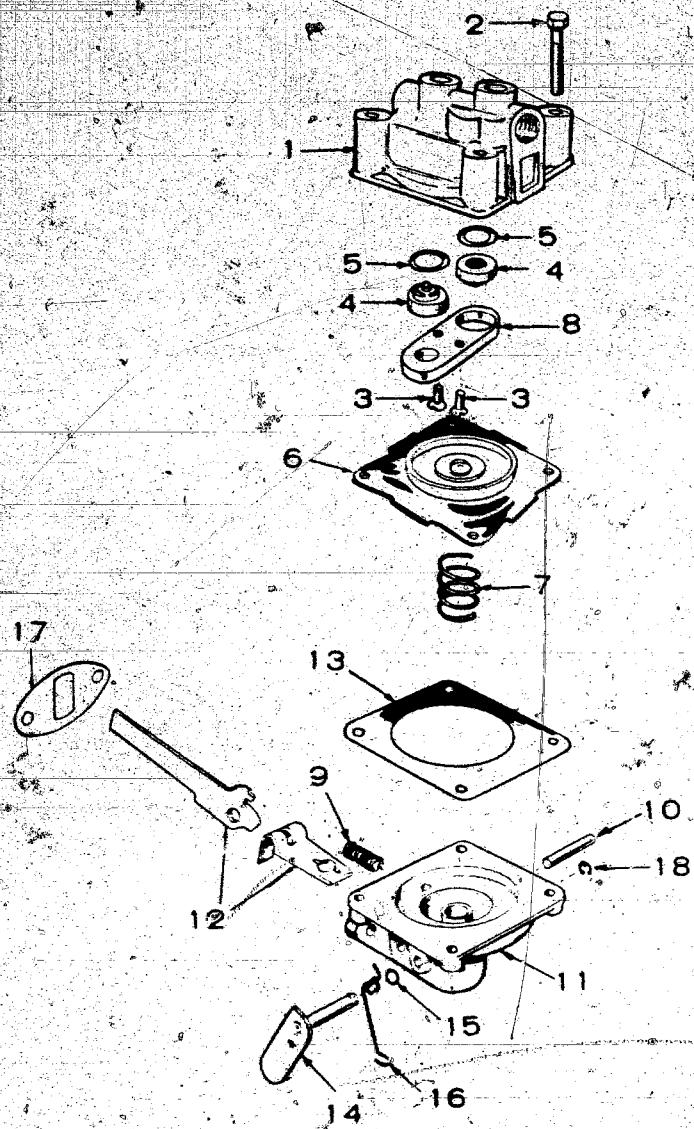
- Order these parts from the tractor manufacturer.

# FUEL SYSTEM



| REF.<br>NO. | PART<br>NO.                                    | QTY.<br>USED | PART<br>DESCRIPTION   | REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION  |
|-------------|--|--------------|---|-------------|-------------|--------------|--|
| 1           | 149-0693                                       | 1            | Pump, Fuel - Key 1,2,3,4,5,6,7<br>(See Separate Group for Components) | 17          | 509-0124    | 1            | Seal, "O" Ring - Air Cleaner   |
| 2           | 140-1058                                       | 1            | Clamp, Air Cleaner  | 18          | 140-1055    | 1            | Element, Air Cleaner   |
| 3           | GASKET<br>149-0003                             | 2            | Key 1,2,3,4,5,6,7   | 19          | 140-1053    | 1            | Cover, Air Cleaner   |
|             | 149-0003                                       | 1            | Key 8   | 20          | 865-0022    | 1            | Nut, Wing - Air Cleaner  |
| 4           | LINE, FUEL<br>149-0611                         | 1            | Key 1,2,3,4,5   | 21          | 503-0301    | 2            | Clamp, Fuel Hose   |
|             | 503-0694                                       | 1            | Key 6,7   | 22          | 800-0009    | 2            | Screw, Cap - Hex Head<br>Carburetor Mounting<br>(1/4-20 x 1-1/2" lg)         |
| 5           | CONNECTOR, FUEL LINE<br>502-0002               | 2            | Key 1,2,3,4,5 - (1) Fuel Pump<br>Outlet, (1) Carburetor Inlet         | 23          | 800-0054    | 2            | Screw, Cap - Hex Head - Inta<br>Manifold Mounting (3/8-16<br>2" lg)          |
|             | 502-0395                                       | 2            | Key 6,7 - (1) Fuel Pump<br>Outlet, (1) Carburetor Inlet               | 24          | 815-0222    | 2            | Screw, Machine - Fillister Hea<br>Fuel Pump Mounting (1/4-2<br>1-1/4" lg)    |
|             | 502-0395                                       | 1            | Key 8 - Carburetor Inlet  | 25          | 850-0040    | 2            | Washer, Lock - Spring -<br>Carburetor Mounting (1/4")                        |
| 6           | CARBURETOR (See Separate Group for Components) |              |   | 26          | 850-0050    | 2            | Washer, Lock - Spring -<br>Intak Manifold Mounting (3/8")                    |
|             | 142-0482                                       | 1            | Key 1,2,3,4   | 27          | 526-0063    | 2            | Washer, Flat - Fuel Pump Mour<br>(17/64" ID x 7/16" OD x 1/32")              |
|             | 142-0593                                       | 1            | Key 5,6,7,8   | 28          | 526-0008    | 1            | Washer, Flat - Air Cleaner Co<br>Mounting (13/64" ID x 7/16"<br>x 1/32" Thk) |
| 7           | CONNECTOR, FUEL LINE<br>502-0020               | 1            | Key 1,2,3,4,5 (Fuel<br>Pump Inlet)                                    | 29          | 800-0028    | 4            | Screw, Cap - Hex Head<br>(5/16"-18 x 1")                                     |
|             | 502-0313                                       | 1            | Key 6,7 (Fuel Pump Inlet)   | 30          | 850-0045    | 4            | Washer, Lock - Spring (5/15")  |
| 8           | MUFFLER, EXHAUST<br>155-1065                   | 1            | Keys 1,2,3  | 31          | 800-0004    | 2            | Screw, Cap - Hex Head<br>(1/4-20 x 5/8")                                     |
|             | 155-0480                                       | 1            | Key 4,5,6,7,8   | 32          | 149-0136    | 1            | Plate, Fuel Pump Hole -<br>Key 8   |
| 9           | 154-0360                                       | 2            | Gasket, Muffler   |             |             |              |  |
| 10          | 141-0078                                       | 1            | Gasket, Carburetor Mounting   |             |             |              |  |
| 11          | 153-0263                                       | 1            | Bracket and Clip, Choke<br>Cable                                      |             |             |              |  |
| 12          | 154-0356                                       | 1            | Manifold, Intake  |             |             |              |  |
| 13          | 154-0013                                       | 2            | Gasket, Intake Manifold   |             |             |              |  |
| 14          | 149-0045                                       | 1            | Spacer, Fuel Pump Mounting  |             |             |              |  |
| 15          | 420-0169                                       | 1            | Wrench, Carburetor Adjusting  |             |             |              |  |
| 16          | BASE AIR C. FANER                              |              |   |             |             |              |  |

# FUEL PUMP PARTS



| REF. NO. | PART NO. | QTY USED                             | PART DESCRIPTION                                       |
|----------|----------|--------------------------------------|--|
| 1        | 149-0693 | 1                                    | Pump, Fuel - Key 1,2,3,4,5,6,7                         |
| 149-0526 | 1        | Repair Kit (Includes Parts Marked *) |  |
| 1        | 149-0582 | 1                                    | Body (Not Sold Separately)                             |
| 2        | 815-0148 | 4                                    | Screw, Self Tapping (#8-32 x 7/8")                     |
| 3        | 815-0147 | 2                                    | Screw, Phillips Self Tapping (#6-32 x 5/8") - Retainer |
| 4        | 149-0096 | 2                                    | *Valve and Cage  |
| 5        | 149-0095 | 2                                    | *Gasket, Valve   |
| 6        | 149-0582 | 1                                    | *Diaphragm Assembly                                    |
| 7        | 149-0672 | 1                                    | *Spring  |
| 8        | 149-0539 | 1                                    | Retainer, Valve Cage                                   |
| 9        | 149-0675 | 1                                    | *Spring  |
| 10       | 516-0113 | 1                                    | Pin, Rocker Arm  |
| 11       |          | 1                                    | Body (Not Sold Separately)                             |
| 12       | 149-0710 | 1                                    | Link and Arm, Rocker (Sold Only as a Set)              |
| 13       | 149-0858 | 1                                    | *Gasket, Diaphragm - Lower Side                        |
| 14       | 149-0551 | 1                                    | Lever, Primer  |
| 15       | 509-0065 | 2                                    | Seal, "O" Ring   |
| 16       | 149-0404 | 1                                    | Spring, Primer Lever                                   |
| 17       | 149-0003 | 1                                    | *Gasket, Pump Mounting                                 |
| 18       | 518-0129 | 1                                    | Ring, Retainer - Primer Lever                          |

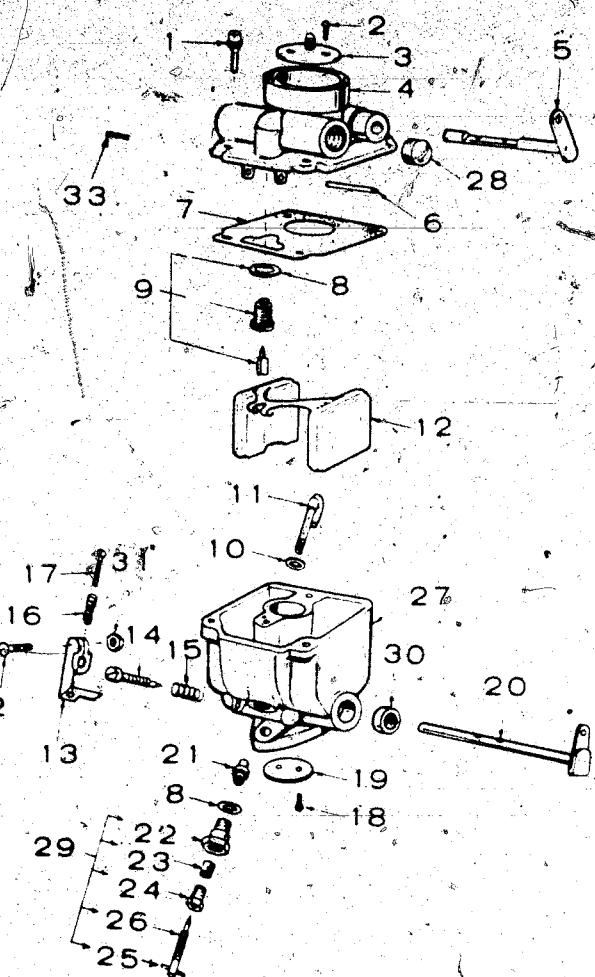
Parts Included in 149-0526 Repair Kit.

# CARBURETOR PARTS

| REF.<br>NO. | PART<br>NO.          | QTY<br>USED | PART<br>DESCRIPTION                                      |
|-------------|----------------------|-------------|--|
| CARBURETOR  |                      |             |  |
|             | 142-0482             | 1           | Key 1,2,3,4  |
|             | 142-0593             | 1           | Key 5,6,7,8  |
|             | 142-0371             | 1           | Repair Kit, Carburetor<br>Includes Parts Marked **)      |
|             | 142-0033             | 1           | Gasket Kit, Carburetor<br>Includes Parts Marked **)      |
| 1           | 815-0103             | 1           | Screw, Bowl Cover  |
| 1           | 815-0109             | 2           | Screw, Bowl Cover  |
| 2           | 815-0091             | 2           | **Screw, Choke Fly<br>(4-40 x 3/16")                     |
| 3           | 142-0055             | 1           | Fly, Choke   |
| 4           | 142-0205             | 1           | Sleeve Assembly, Choke<br>(Cover)                        |
| 5           | SHAFT ASSEMBLY CHOKE |             |  |
|             | 142-0420             | 1           | Key 1,2,3,4  |
|             | 142-0530             | 1           | Key 5,6,7,8  |
| 6           | 142-0039             | 1           | **Shaft, Float   |
| 7           | 142-0031             | 1           | Gasket, Body to Bowl                                     |
| 8           | 148-0017             | 2           | Gasket (1) Float Valve Seat<br>(1) Main Adjusting Needle |
| 9           | 142-0049             | 1           | **Valve and Seat Assembly                                |
| 10          | 142-0032             | 1           | Gasket, Nozzle   |
| 11          | 142-0285             | 1           | Nozzle Assembly  |
| 12          | 142-0361             | 1           | Float and Lever Assembly                                 |
| 13          | 145-0008             | 1           | Lever, Idle Stop   |
| 14          | 142-0040             | 1           | **Needle, Idle Adjusting                                 |
| 15          | 142-0282             | 1           | Spring, Idle Needle Adjusting                            |
| 16          | 142-0035             | 1           | Spring, Throttle Stop<br>Adjusting Screw                 |
| 17          | 812-0063             | 1           | Screw, Throttle Stop<br>Adjusting (4-32 x 1 1/2")        |
| 18          | 815-0072             | 2           | **Screw, Throttle Fly<br>(4-40 x 1/4")                   |
| 19          | 142-0369             | 1           | Fly, Throttle  |
| 20          | 142-0368             | 1           | Shaft Assembly, Throttle                                 |
| 21          | 142-0370             | 1           | Nut and Jet Nozzle                                       |
| 22          | 142-0046             | 1           | Retainer, Main Adjusting<br>Needle                       |
| 23          | 142-0206             | 1           | **Packing, Main Adjusting<br>Needle                      |
| 24          | 142-0045             | 1           | Retainer, Main Adjusting<br>Needle Packing               |
| 25          | 516-0027             | 1           | Pin, Main Adjusting Needle                               |
| 26          | 142-0041             | 1           | Needle, Main Adjusting                                   |
| 27          |                      | 1           | Body Assembly (Not Sold<br>Separately)                   |
| 28          | 505-0008             | 1           | Plug, Gas Inlet  |
| 29          | 142-0042             | 1           | Needle Assembly (Includes<br>Packing, Nut and Retainer)  |
| 30          | 142-0343             | 2           | **Bushing, Throttle Shaft                                |
| 31          | 870-0053             | 1           | Nut, Throttle Stop                                       |
| 32          | 813-0103             | 1           | Screw, Throttle Stop Clamp                               |
| 33          | 142-0227             | 1           | Pin, Choke Stop  |

\*\* - Parts contained in 142-0033 Gasket Kit.

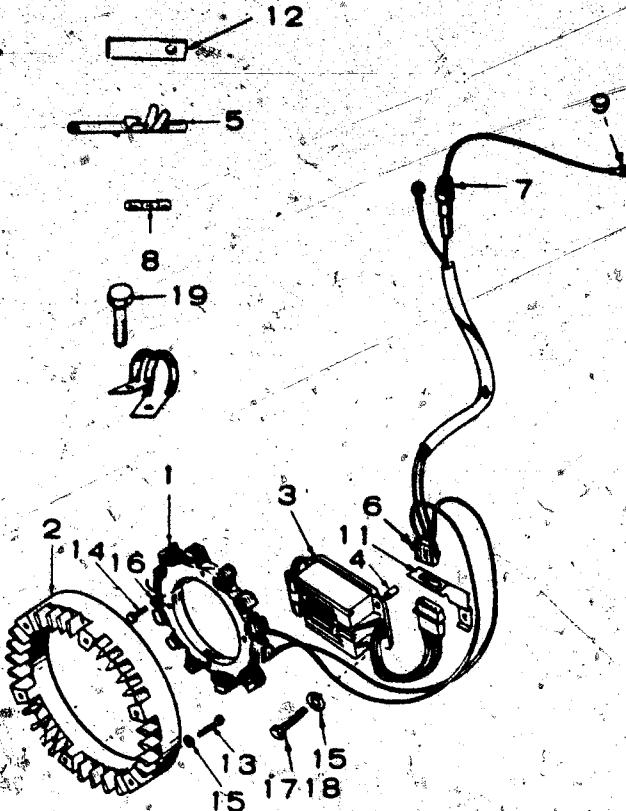
\*\* - Parts contained in 142-0371 Repair Kit.



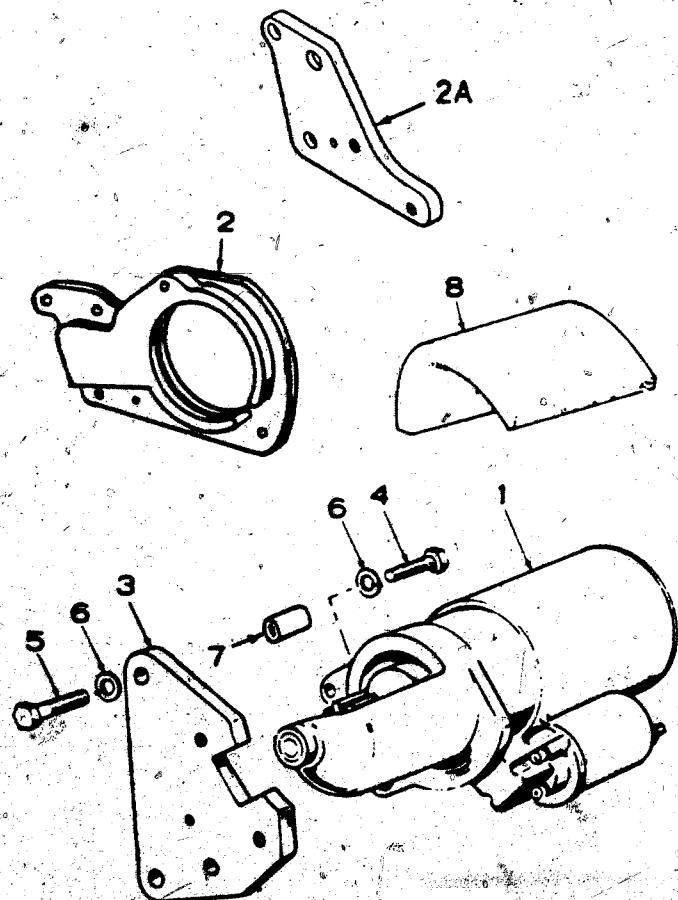
# FLYWHEEL ALTERNATOR

| REF.<br>NO. | PART<br>NO.   | QTY.<br>USED | PART<br>DESCRIPTION  |
|-------------|---|--------------|--|
| 1           | STATOR, CHARGING ALTERNATOR (Includes Parts Marked) |              |  |
| 191-0739    |   | 1            | Key 1,2,3,4  |
| 191-0892    |   | 1            | Key 5,6,7,8  |
| 2 191-0400  |   | 1            | Rotor, Charging Alternator   |
| 3 305-0478  |   | 1            | Regulator, Rectifier   |
| 4 305-0477  |   | 1            | Spacer, Regulator Mounting   |
| 5 323-0488  |   | 4            | Socket, Connecting   |
| 6 323-0789  |   | 1            | Housing, Connecting Sockets  |
| 7 321-0165  |   | 1            | Holder, Fuse   |
| 8 321-0162  |   | 1            | Fuse (30 Amp)  |
| 9 332-0529  |   | 1            | Terminal, Faston   |
| 10 332-1338 |   | 2            | Clamp, Loop Type   |
| 11 332-1358 |   | 1            | Bracket, Connector Mounting  |
| 12 191-0793 |   | 1            | Clip, Wiring Harness   |
| 13 812-0156 |   | 6            | Screw, Machine - Round Head<br>Rotor Mounting (1/4-20 x<br>1-1/2" lg)    |
| 14 813-0109 |   | 3            | Screw, Machine - Round Head -<br>Stator Mounting (#10-32 x<br>1-3/4" lg) |
| 15 850-0040 |   | 9            | Washer, Lock - Spring (1/4")   |
| 16 850-0030 |   | 3            | Washer, Lock - Spring (#10)  |
| 17 800-0006 |   | 2            | Screw, Cap - Hex Head<br>(1/4-20 x 7/8")                                 |
| 18 800-0009 |   | 1            | Screw, Cap - Hex Head<br>(1/4-20 x 1-1/2")                               |
| 19 800-0047 |   | 2            | Screw, Cap - Hex Head<br>(3/8-16 x 5/8")                                 |

- Parts included in Charging Alternator Stator



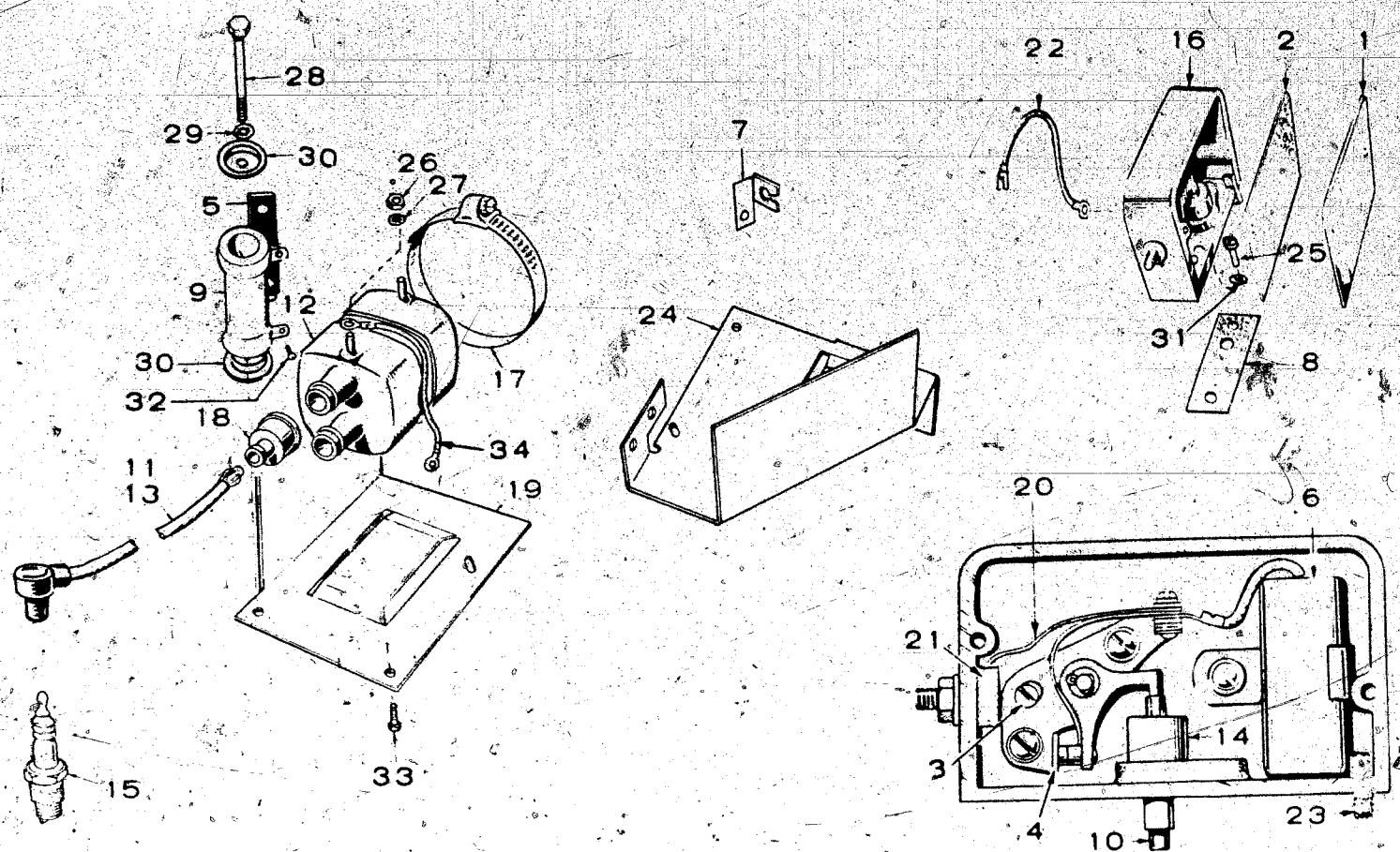
# STARTER MOTOR



| REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION  |
|-------------|-------------|--------------|--|
| 1           |             |              | Motor, Starting (For<br>Components See Separate<br>Group)              |
| 191-0511    |             | 1            | Key 1  |
| 191-0790    |             | 1            | Key 3,4,5  |
| 191-0734    |             | 1            | Key 2  |
| 191-1052    |             | 1            | Key 6,7,8  |
| 2 191-0736  |             | 1            | Flange, Motor - Starter<br>(Key 3-5)                                   |
| 2A 191-1104 |             | 1            | Flange, Motor - Starter<br>(Key 6,7,8)                                 |
| 3           |             | 1            | Bracket, Starter Motor<br>Mounting - Key 2                             |
| 4 800-0050  |             | 2            | Screw, Cap - Hex Head,<br>Starter Motor to Bracket<br>(3/8-16 x 1" Lg) |
| 5 102-0455  |             | 3            | Screw, Cap - Hex Head<br>Starter Bracket Mounting<br>(3/8-16 x 1" Lg)  |
| 6 850-0050  |             | 5            | Washer, Lock - Spring -<br>Starter Motor Mounting (3/8")               |
| 7 191-1103  |             | 2            | Spacer, Starter Mounting   |
| 8 191-1108  |             | 1            | Seal, Air  |

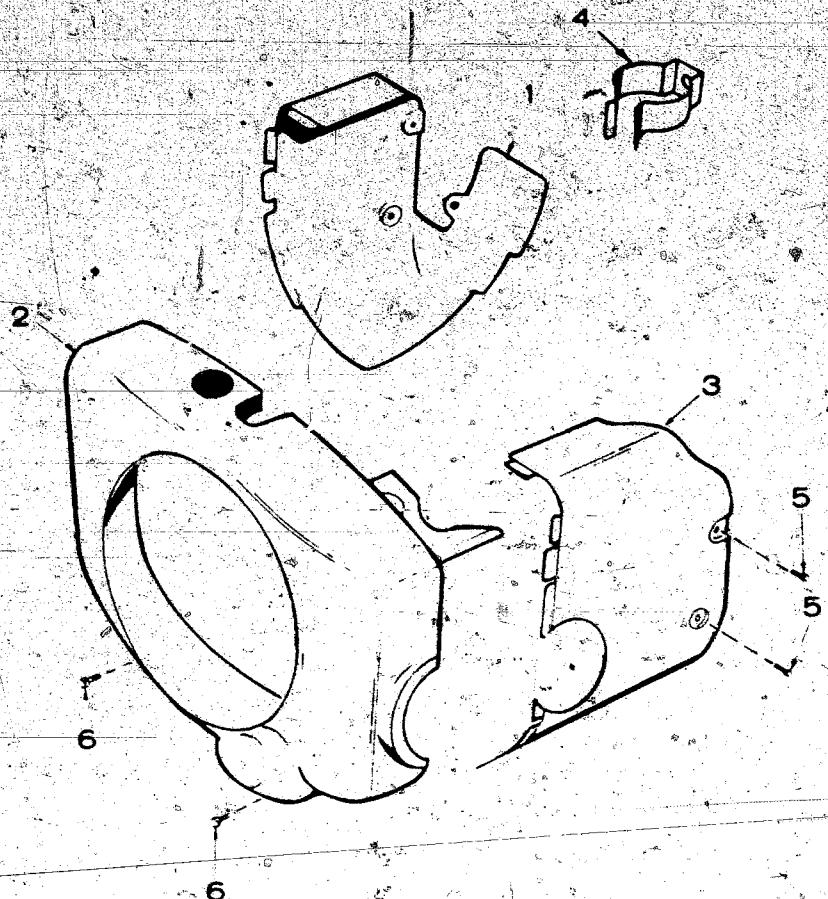
§ - Refer to factor giving complete Model, Spec and  
Serial Number.

# IGNITION



| REF.<br>NO. | PART<br>NO.               | QTY.<br>USED | PART<br>DESCRIPTION   | REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION          |
|-------------|---------------------------|--------------|---|-------------|-------------|--------------|------------------------------|
| 1           | 160-0930                  | 1            | Cover, Breaker Box  | 17          | 503-0514    | 1            | Clamp, Coil                  |
| 2           | 160-0150                  | 1            | Gasket, Breaker Box Cover   | 18          | 160-0558    | 2            | Nipple, Rubber, Coil         |
| 3           | 160-0075                  | 1            | Cam, Point Gap Adjusting  | 19          | 166-0376    | 1            | Bracket, Coil Mounting       |
| 4           | 160-0002                  | 1            | Point Set, breaker  | 20          | 160-0428    | 1            | Key 1.2.3                    |
| 5           | 304-0610                  | 1            | Support, Resistor Terminal  | 21          | 160-0349    | 1            | Strap, Point Set to Terminal |
| 6           | 312-0069                  | 1            | Condenser, Breaker Points   | 22          | 334-0028    | 1            | Block and Terminal Assembl   |
| 7           | 167-0188                  | 1            | Clip, Spark Plug Cables   | 23          | 160-0261    | 1            | Lead (4 ft piece of wire)    |
| 8           | 160-0043                  | 1            | Gasket, Breaker Box Mounting                                      | 24          | 166-0562    | 1            | Wick, Breaker Box Oil Drain  |
| 9           | 304-0060                  | 1            | Resistor, Ignition  | 25          | 802-0034    | 2            | Bracket, Coil Mounting       |
| 10          | 160-0262                  | 1            | Plunger Assembly (Includes<br>Plunger and Guide)                  | 26          | 870-0053    | 2            | Key 4.5.6.7.8                |
| 11          | CABLE, SPARK PLUG - RIGHT |              | 8-1/2" - Key 1.2.3.4.5.6  | 27          | 854-0010    | 2            | Screw, Cap - Socket Head     |
|             | 167-1594                  | 1            | 7-1/4" - Key 7.8  | 28          | 813-0112    | 1            | Nut, Coil Terminal (10-32)   |
| 12          | 166-0346                  | 1            | Coil, Ignition  | 29          | 850-0030    | 1            | Washer, Coil Terminal (#10)  |
| 13          | CABLE, SPARK PLUG - LEFT  |              | Key 1.2.3   | 30          | 304-0014    | 2            | Screw, Resistor Mounting     |
|             | 167-1594                  | 1            | 17-1/2" - Key 4.5.6   |             |             |              | (10-32 x 2-1/2")             |
|             | 167-1593                  | 1            | 17" - Key 7.8   |             |             |              | Washer, Lock - Resistor      |
|             | 167-1595                  | 1            | 17" - Key 7.8   |             |             |              | Mounting (#10-32 x 2-1/2")   |
| 14          | 160-0263                  | 1            | Diaphragm, Breaker Box  |             |             |              | Washer, Lock - Resistor      |
| 15          | PLUG, SPARK               |              | Key 1.2.3.4.5.6   |             |             |              | Mounting (#10-32 x 2-1/2")   |
|             | 167-0241                  | 2            | Key 7.8   |             |             |              | Washer, Centering - Resisto  |
|             | 167-0237                  | 2            | Box, Breaker (Includes<br>Points, Condenser, Cover and<br>Gasket) |             |             |              | Mounting                     |
| 16          | 160-0257                  | 1            |   | 31          | 850-0040    | 2            | Washer, Lock - Spring (1/4") |
|             |                           |              |   | 32          | 815-0201    | 2            | Screw, Machine - Round Head  |
|             |                           |              |   |             |             |              | with ET (#8-32 x 3/8")       |
|             |                           |              |   | 33          | 821-0004    | 2            | Screw Cap - HWH              |
|             |                           |              |   |             |             |              | (#10-32 x 5/16")             |
|             |                           |              |   | 34          | 336-0332    | 1            | Lead, Coil                   |

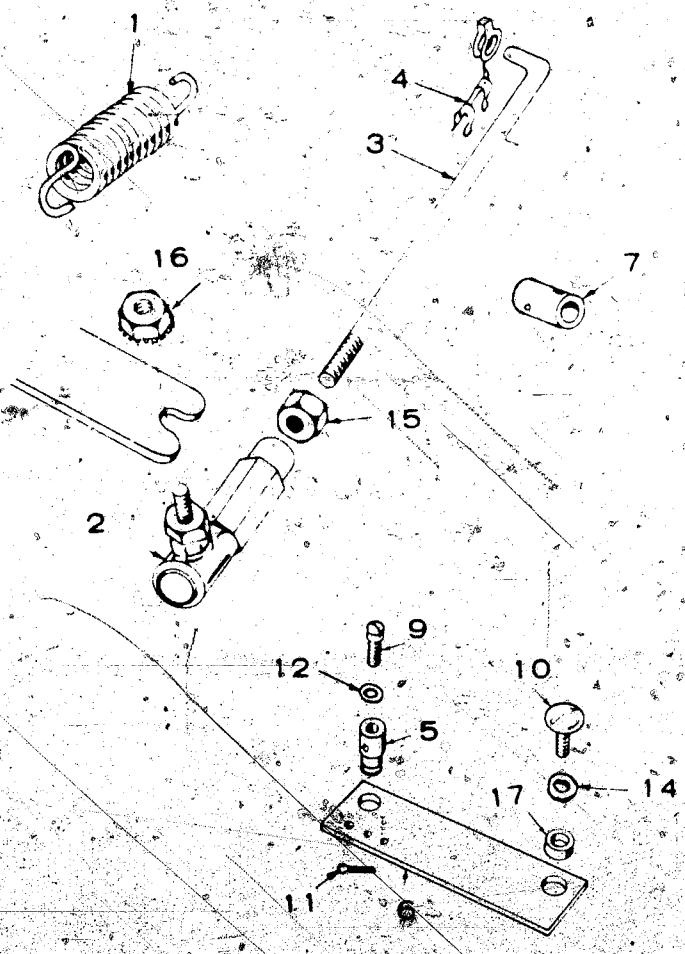
# BLOWER HOUSING GROUP



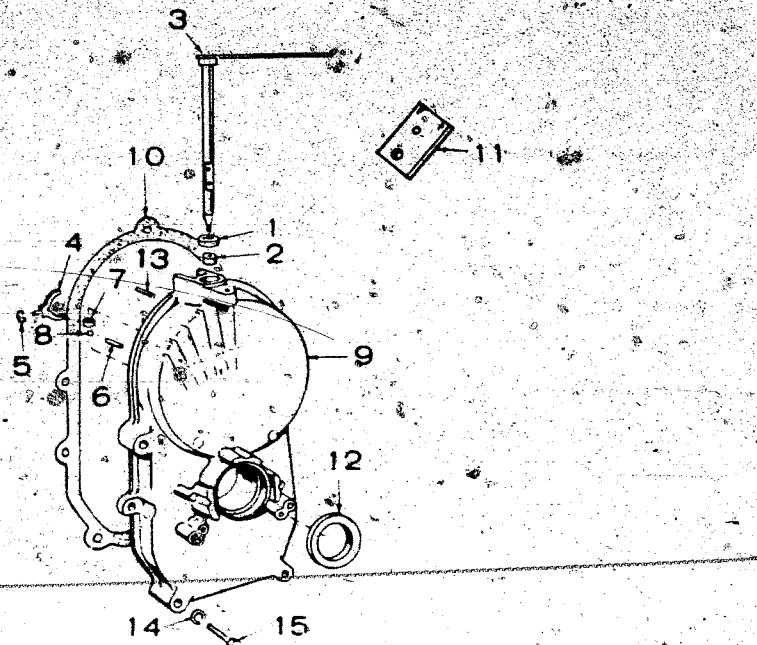
| REF. NO. | PART NO.                      | QTY. USED | PART DESCRIPTION                        |
|----------|-------------------------------|-----------|---|
| 1        | 134-0589                      | 1         | Housing, Cylinder Air - Left            |
| 2        | HOUSING, BLOWER               | 1         | Key 1,2,3                               |
|          | 134-2025                      | 1         | Key 4,5                                 |
|          | 134-2199                      | 1         | Key 6,7,8                               |
| 3        | HOUSING, CYLINDER AIR - RIGHT | 1         | Key 1                                   |
|          | 134-2032                      | 1         | Key 2,3,4,5                             |
|          | 134-2094                      | 1         | Key 6,7,8                               |
| 4        | 134-2954                      | 1         | Clip, Cylinder Air Housing              |
| 5        | 321-0169                      | 1         | Screw, Tapping - HWH<br>(1/4-20 x 1/2") |
| 5        | 815-0261                      | 5         | Screw, Cap - HWH<br>(1/4-20 x 1/2")     |
| 6        | 821-0010                      | 2         |   |

# GOVERNOR GROUP

| REF. NO. | PART NO.         | QTY. USED | PART DESCRIPTION  |
|----------|------------------|-----------|---|
| 1        | SPRING, GOVERNOR | 1         |   |
|          | 150-0698         | 1         | Key 1,2,3   |
|          | 150-1264         | 1         | Key 4,5,6,7,8   |
| 2        | 150-0639         | 1         | Joint, Ball   |
| 3        | 150-0629         | 1         | Link, Throttle  |
| 4        | 518-0006         | 1         | Clip, Link End  |
| 5        | 152-0155         | 1         | Swivel, Throttle Cable<br>Connector - Key 4,5,6,7,8   |
| 6        | 150-1310         | 1         | Bracket, Throttle Control<br>Key 4,5,6,7,8  |
| 7        | 145-0412         | 1         | Connector, Throttle<br>Bracket - Key 4,5,6,7,8  |
| 9        | 815-0104         | 1         | Screw Machine - Fillister Head<br>Throttle Control Swivel - Key<br>4,5,6,7,8 (#8-32 x 5/16" lg) |
| 10       | 815-0241         | 1         | Screw, Machine - Truss Head<br>Throttle Control Bracket<br>Key 4,5,6,7 (1/4-20 x 1/2" lg)       |
| 11       | 516-0059         | 1         | Key, Cotter - Throttle<br>Control - Key 4,5,6,7,8   |
| 12       | 526-0006         | 1         | Washer, Flat - Throttle Control<br>(15/64" ID x 1/2" OD x 3/64" Thk)                            |
| 13       | 862-0001         | 1         | Nut, Hex - Throttle Control<br>(1/4-20)   |
| 14       | 850-0040         | 1         | Washer, Lock - Spring Throttle<br>Control (1/4")  |
| 15       | 870-0053         | 1         | Nut, Hex - Governor Control<br>(10-32)  |
| 16       | 870-0131         | 1         | Nut, Keps - Governor Control<br>(Includes Washer #10-32)  |
| 17       | 150-1269         | 1         | Spacer, Throttle Control  |



# GEAR COVER GROUP



| REF.<br>NO. | PART<br>NO.                                | QTY.<br>USED | PART<br>DESCRIPTION                              |
|-------------|--|--------------|--|
| 1           | 509-0008                                   | 1            | Seal, Oil - Governor Shaft                       |
| 2           | 510-0013                                   | 1            | Bearing - Governor Shaft - Upper                 |
| 3           | 150-0377                                   | 1            | Shaft and Arm Assembly, Governor                 |
| 4           | 150-0620                                   | 1            | Yoke, Governor Shaft                             |
| 5           | 518-0129                                   | 1            | Ring, Yoke Retainer                              |
| 6           | 516-0130                                   | 1            | Pin - Governor - Cup Stop                        |
| 7           | 510-0008                                   | 1            | Bearing, Governor Shaft - Lower                  |
| 8           | 510-0014                                   | 1            | Ball, Bearing, - Governor Shaft                  |
| 9           | 103-0332                                   | 1            | Cover Assembly - Gear (Includes parts marked *)  |
| 10          | 103-0011                                   | 1            | Gasket, Gear Cover                               |
| 11          | BRACKET, GOVERNOR LINKAGE                  |              |  |
|             | 150-0635                                   | 1            | Key 1,2,3  |
|             | 150-1297                                   | 1            | Key 4,5,6,7,8                                    |
| 12          | 509-0040                                   | 1            | Seal, Gear Cover                                 |
| 13          | 516-0011                                   | 2            | Pin, Gear Cover (5/16 x 1-1/8")                  |
| 14          | 850-0045                                   | 5            | Washer, Lock + Spring Gearcover Mounting (5/16") |
| 15          | SCREW, CAP - HEX HEAD - GEARCOVER MOUNTING |              |  |
|             | 800-0032                                   | 4            | 5/16-18 x 1-3/4" lg)                             |
|             | 800-0034                                   | 1            | 5/16-18 x 2-1/4" lg)                             |

- Parts Included in Gear Cover Assembly.

## SERVICE KITS AND MISCELLANEOUS

NOTE: For other kits, refer to the group for the part in question.

| REF.<br>NO. | PART<br>NO. | QTY.<br>USED | PART<br>DESCRIPTION         |
|-------------|-------------|--------------|-----------------------------|
|             | 168-0109    | 1            | Gasket Kit, Complete Engine |
|             | 160-0836    | 1            | Ignition Tune-Up Kit        |
|             | 168-0095    | 1            | Carbon Removal Gasket Kit   |
|             | 522-0259    | 1            | Kit, Overhaul               |